ENX 4 MAG Encoder ⌀4 mm, 1...256 CPT

Key Data		ENX 4 MAG Incremental, Commutation Signal	
Number of channels		3	
Max. counts per turn		256	
Additional length at motor	mm	2.7	
Ambient temperature	°C	-40.. 100	
Weight	g	1	

Selection criteria	ENX 4 MAG Incremental, Commutation Signal	
Speed and rotation direction detection	🟩	
Speed and position control	🟩	
Compact and robust design	🟩	
High resolution	🔺	
Cost effective	🟩	

🟩 suitable   🔺 suitable to a limited extent   🔴 not suitable

Specifications		ENX 4 MAG Incremental, Commutation Signal	
Supply voltage Vcc	V	3.0.. 3.6	
Typical current draw	mA	13	
Max. operating frequency	kHz	500	
Max. Speed	rpm	100 000	
Connection[3]		FPC, 12 pole, pitch 0.5 mm	
		Pin 1 W1	
		Pin 2 W2	
		Pin 3 W3	
		Pin 4 GND	
		Pin 5 V_{cc}	
		Pin 6 Channel A	
		Pin 7 Channel B	
		Pin 8 Channel I	
		Pin 9 H1	
		Pin 10 H2	
		Pin 11 H3	
		Pin 12 Not connect[1]	
		Output signal: CMOS compatible	
		Output current per channel: ±4 mA	

Configuration	ENX 4 MAG Incremental, Commutation Signal	
Counts per turn[2]	1...256	

maxon Modular System	Page
maxon EC motor	
ECX SPEED 4 M	181
ECX SPEED 4 L	182

Dimensions Standard Version

Notes

[1] Applying voltage to these pins may destroy the encoder.

[2] maxon controllers require a resolution of at least 16 pulses.

[3] H1, index and angle zero are aligned with angle commutation zero (see p. 56).

Compatible connector:
Molex 52745-1297, TE 1-1734839-2
Adapter 498157 required for all maxon controllers

Please note: max. continuous current 0.5 A

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